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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/068,100	02/05/2002	Seiji Tada	F-7312 5740		
28107 75	590 05/18/2004		EXAMINER		
JORDAN AN	D HAMBURG LLP		HANSEN, COLBY M		
122 EAST 42N	D STREET		ADTIBUT	PAPER NUMBER	
SUITE 4000			ART UNIT	PAPER NUMBER	
NEW YORK,	NY 10168		3682		
			DATE MAILED: 05/18/2004	1	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application	No.	Applicant(s)				
Office Action Summers	10/068,100		TADA, SEIJI				
Office Action Summary	Examiner		Art Unit	1			
The MAN INC DATE of this communication and	Colby Hans		3682	MW			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event within the statuto vill apply and will e cause the applica	, however, may a reply be tim ry minimum of thirty (30) days expire SIX (6) MONTHS from tition to become ABANDONEI	ely filed s will be considered time the mailing date of this c O (35 U.S.C. § 133).	ly. xommunication.			
Status							
1) Responsive to communication(s) filed on 17 Fe	ebruary 2004						
2a)⊠ This action is FINAL . 2b)☐ This	2a)⊠ This action is FINAL . 2b)□ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) ☐ Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-12 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from cons						
Application Papers							
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 10.	epted or b) drawing(s) be ion is required	held in abeyance. See I if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 C				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4/12/2004.	Ę	I) Interview Summary Paper No(s)/Mail Da Notice of Informal P Other:		O-152)			

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DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-12 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: it is unclear what the structural relationship of the eccentricity and rattling ranges are with respect to the bearing.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claims 1, 2, 4, 8 and 9 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Miyake (US Pat. 5,522,667) (the eccentricity and rattling tolerances are inherently part of the invention given there extremely limited structure).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miyake (US Pat. 5,522,667).

Miyake (US Pat. 5,522,667) clearly discloses the claimed invention except for an explicitly recited eccentricity tolerance and a rattling tolerance.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have a stated range for eccentricity and rattling of the bearing so as to reduce noise and wear as well as to make the bearing as accurate as possible, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re aller, 105 USPQ 233.

Furthermore, Miyake (US Pat. 5,522,667) discloses the claimed invention except for the annular cage being guided by the inner ring fixed by setting a relationship between a guide clearance α and a pocket clearance β at $\alpha \leq \beta$ if said guide clearance of said annular cage with

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respect to said inner ring is α and said pocket clearance of a pocket inner wall face with respect to said ball is β .

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have reversed the relationship Miyake (US Pat. 5,522,667) has between its cage, balls, and outer ring, such that the same relationship would be exhibited by its cage, balls and inner ring, since it has been held that a mere reversal of the essential working pairs of a device involves only routine skill in the art. In re Einstein, 8 USPQ 167.

Claims 5-8, 10 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miyake (US Pat. 5,522,667).

Miyake (US Pat. 5,522,667) discloses the claimed invention except for explicitly stating the equations pertaining to eccentricity tolerance and rattling tolerance with regard to guide clearance alpha, pocket clearance beta, rotational centrifugal force x, and thermal expansion y.

Such equation limitations are obvious in light of the intended use of Miyake (US Pat. 5,522,667) to limit vibration and reduce heat, wherein said aforementioned equations are inherently necessary to Miyake (US Pat. 5,522,667) to avoid ball seizure.

Response to Arguments

Applicant's arguments filed 2/17/2004 have been fully considered but they are not persuasive.

Applicant argues that Miyake (US Pat. 5,522,667) does not disclose the eccentricity and rattling tolerances of the invention. Firstly, given that said limitations were in parenthesises, said tolerances had no patentable weight. But even giving the disclosures patentable weight, it is the

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position of the Examiner that Miyake (US Pat. 5,522,667) inherently had such broadly stated tolerances that had to be calculated by Miyake (US Pat. 5,522,667) in order to have a functioning bearing.

FACSIMILE TRANSMISSION

Submission of your response by facsimile transmission is encouraged. Group 3600's facsimile number is (703) 305-3597. Recognizing the fact that reducing cycle time in the processing and examination of patent applications will effectively increase a patent's term, it is to your benefit to submit responses by facsimile transmission whenever permissible. Such submission will place the response directly in our examining group's hands and will eliminate Post Office processing and delivery time as well as the PTO's mail room processing and delivery time. For a complete list of correspondence <u>not</u> permitted by facsimile transmission, see MPEP 502.01. In general, most responses and/or amendments not requiring a fee, as well as those requiring a fee but charging such fee to a deposit account, can be submitted by facsimile transmission. Responses requiring a fee which applicant is paying by check <u>should not be</u> submitting by facsimile transmission separately from the check.

Responses submitted by facsimile transmission should include a Certificate of Transmission (MPEP 512). The following is an example of the format the certification might take:

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I hereby certify that this correspondence is being facsimile transmitted to the Patent and
Trademark Office (Fax No. (703) 305-3597) on
(Date)
Typed or printed name of person signing this certificate:
(Signature)

If your response is submitted by facsimile transmission, you are hereby reminded that the original should be retained as evidence of authenticity (37 CFR 1.4 and MPEP 502.02). Please do not separately mail the original or another copy unless required by the Patent and Trademark Office. Submission of the original response or a follow-up copy of the response after your response has been transmitted by facsimile will only cause further unnecessary delays in the processing of your application; duplicate responses where fees are charged to a deposit account may result in those fees being charged twice.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Colby Hansen whose telephone number is (703) 305-1036. The examiner can normally be reached on Monday through Thursday and every other Friday from 7:30 PM to 5:00 PM (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bucci, can be reached on (703) 308-3668. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-2168.

SUPERVISORY PATER EXAMINER

TECHNOLOGY CENTER 3399

Colby M. Hansen

5/17/04

Patent Examiner